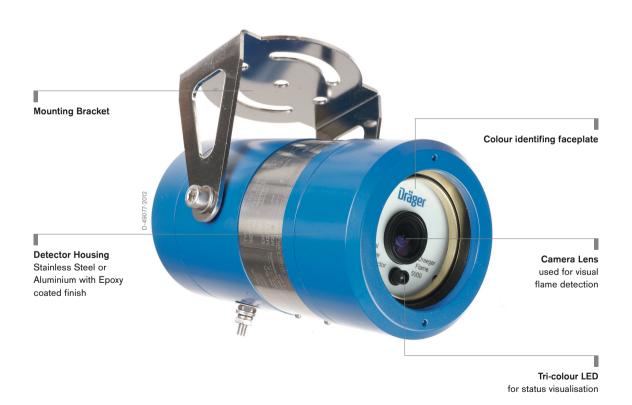


Dräger Flame 5000 Flame Detection

The Dräger Flame 5000 is an imaging based explosion proof flame detector. This visual flame detection system uses digital image processing and advanced algorithms to process and interpret flame characteristics. This principle offers an extended field of view and fewer false alarms. Each detector is equipped with a colour CCTV camera.



Benefits

Immunity against false alarms

The unique software algorithm of the Dräger Flame 5000 is capable of discriminating between genuine fire conditions and other radiant sources that may cause conventional detectors to become desensitized or produce unwanted alarms. The detector is immune to common sources of unwanted alarms such as welding work, hot CO₂ emissions and flare reflections. This makes it to a great partner on your oil rig or industry plant.

Maximum field of view

The Dräger Flame 5000 can detect n-heptane fires of 0.1 m² (1 ft²) or greater at a distance of 44 m (144 ft) within a 90° horizontal and 65° vertical field of view. The detector's field of view is a rectangular pyramid shape. This gives it one of the greatest standard coverage area and range of any flame detector currently available.

Flexible operation

The Dräger Flame 5000 operates as a stand-alone unit to transmit live video recordings or can be connected to a control system or a fire panel to provide fault and fire signalling. This is achieved using a 0 to 20 mA signal or relay outputs. An integrated memory card enables the detector to record videos before and after alarm events.

Depending on the environmental conditions you can choose between an aluminium or a stainless steel housing.

Safe and fast intervention

Live video provides instant visual verification of a fire alarm without the operator having to enter a dangerous area. This reduces the risk of injury and improves response time.

An optical verification facility checks the window for contamination and ensures its field of view is not compromised by obstructions placed immediately in front of the detector.

Functional test

The Dräger FS-5000 flame simulator tests Dräger Flame Detectors at distances up to eight metres (22 ft). With reduced need for scaffold or ladders to access the detector, maintenance costs can be decreased.

Easy to install and use

The detector is very easy to install using a mounting bracket of stainless steel. The swiveling mounting bracket ensures that the device is optimally aimed towards potential sources of fire. The device status is displayed to nearby workers by tri-coloured LED light.

System Components



Dräger REGARD® 7000

The Dräger REGARD® 7000 is a modular and therefore highly expandable analysis system for monitoring various gases and vapours. Suitable for gas warning systems with various levels of complexity and numbers of transmitters, the Dräger REGARD® 7000 also features exceptional reliability and efficiency. An additional benefit is the backward compatibility with the REGARD®.



Dräger REGARD® 3900

The Dräger REGARD® 3900 is a standalone, self contained control system for the detection of Toxic, Oxygen and Ex hazards. The control system is fully configurable between 1 and 16 channels, depending upon the type and quantity of input/output boards installed.

Accessories



Dräger FS-5000

The Dräger FS-5000 flame simulator is used to simulate the presence of fire or flames to test the correct operation of the Dräger Flame 5000 or the Dräger Flame 3000.

Related Products



Dräger Flame 3000

The Dräger Flame 3000 is an imaging based explosion proof flame detector. This visual flame detection system uses digital image processing and advanced algorithms to process and interpret flame characteristics. This principle offers an extended field of view and fewer false alarms.

Technical Data

ared al 90°, vertical 65° als (typical), configurable up to 30 seconds 0 Pixel (PAL or NTSC, configurable) ands before and after alarm event 30 m (100 ft)* 25 m (85 ft) 44 m (144 ft) 61 m (200 ft)** 40 m (130 ft) 15 m (50 ft) 40 m (130 ft)*** 2°) 85 °C (#76 to +185 °F) 055 hPa 6 RH, non-condensing
1s (typical), configurable up to 30 seconds 10 Pixel (PAL or NTSC, configurable) 11 nds before and after alarm event 12
0 Pixel (PAL or NTSC, configurable) 1
30 m (100 ft)* 25 m (85 ft) 44 m (144 ft) 61 m (200 ft)** 40 m (130 ft) 15 m (50 ft) 40 m (130 ft)*** 27) 85 °C (#76 to +185 °F) 955 hPa 6 RH, non-condensing
30 m (100 ft)* 25 m (85 ft) 44 m (144 ft) 61 m (200 ft)** 40 m (130 ft) 15 m (50 ft) 40 m (130 ft)*** 2) 85 °C (#76 to +185 °F) 055 hPa 6 RH, non-condensing
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85 °C (#76 to +185 °F) 055 hPa 6 RH, non-condensing
055 hPa 6 RH, non-condensing
055 hPa 6 RH, non-condensing
6 RH, non-condensing
<u> </u>
Alarm and fault
0 to 20 mA
0 mA
2 mA
5 mA
18 mA
RS485, HART® 5
24 VDC nominal (18 to 32 VDC)
Minimum 6 W (10 W typical, maximum 15 W with heating)
m or Stainless Steel
5 or ¾"NPT
5.5 lbs) Aluminium or 6 kg (13.2 lbs) Stainless Stee
0 mm (7.9 x 3.9 inch)
MA 4X
d IIC T4
T4
Division 1 Groups B, C and D T4
Cone 1 AEx/Ex d IIC T4
tified

(VdS)

Automatic Fire Alarm Signaling), FM3600, FM3615, FM3810,

ANSI/NFPA 72

Ordering Information

Dräger Flame 5000	Order No
Dräger Flame 5000, M20, 4-20mA, PAL video mode, Aluminium	420 93 08
Dräger Flame 5000, M20, Relay, NTSC video mode, Aluminium	420 93 09
Dräger Flame 5000, ¾ NPT, Relay, NTSC video mode, Aluminium	420 93 10
Dräger Flame 5000, ¾ NPT, 4-20mA, PAL video mode,	420 93 11
Aluminium	
Dräger Flame 5000, M25, 4-20mA, PAL video mode, Aluminium	420 93 33
Dräger Flame 5000, M25, Relay, NTSC video mode, Aluminium	420 93 34
Dräger Flame 5000, M20, 4-20mA, PAL video mode, Stainless	420 93 20
Steel	
Dräger Flame 5000, M20, Relay, NTSC video mode, Stainless	420 93 21
Steel	
Dräger Flame 5000, ¾ NPT, Relay, NTSC video mode, Stainless	420 93 22
Steel	
Dräger Flame 5000, ¾ NPT, 4-20mA, PAL video mode, Stainless	420 93 23
Steel	
Dräger Flame 5000, M25, 4-20mA, PAL video mode, Stainless	420 93 35
Steel	
Dräger Flame 5000, M25, Relay, NTSC video mode, Stainless	420 93 36
Steel	
Dräger FS-5000	420 93 07
Dräger CCTV Balanced Line to BNC Video Converter	420 93 27



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.